

DPM-7700

High-performance ATC display server



The DPM-7700 is Barco's latest graphics display server that allows ATC application servers to be separated from the controller working position. DPM-7700 acts as a high-performance networked graphics device for distributed systems and combines the latest graphics processing and computing performance into a compact, fanless package.

With the DPM-7700 as a separate display server, there is no longer a need for graphics generation on the application computer. This separation between graphics server and application computer offers a number of advantages:

- The application computer's **overall performance** increases and more advanced system architectures become possible. The application computer is fully dedicated to compute-only operations since graphics controllers and input device interfaces are not required.
- Thanks to the small footprint of the DPM-7700, the **space** required for the controller working position can be **organized** more **efficiently**. The application computer can even be placed in an equipment room hundreds of meters away.
- The split between graphics – application allows for more cost-efficient, **spread investments**. Upgrades of the application computer can be done without changing any other part of the system.

Main features

- High-performance X11 and GLX graphics capability
- Fanless design and solid state storage for noiseless operation
- Fast boot, low maintenance and high reliability
- Multiple copper/fiber 1Gb network connections
- Drives two displays (up to 4MP per display)
Optionally drives four displays (4MP each)
- Specific monitor and control possibilities
- Customizable booting and configuration options
- Support Barco's Tellar display recording software and ATC Xserver extensions
- Uses open interface standards for platform and OS independence
- Project-specific customizations possible

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Technical specifications DPM-7700

Software:

- Linux operating system
 - Ethernet bonding for redundancy/performance
 - Network audio server
 - Network time server (NTP)
- X11 server
 - Single & Multiple display configuration
 - Customer font/remote font server support
 - USB mouse/keyboard support
 - XDMCP - remote connection to application server
- BITE through SNMP
 - SNMP queries (cpu temp, voltage levels,...)
 - SNMP Actions (reboot OS, restart X-server, ...)
- Add-on software option
 - X11R6 protocol recording through Tellar
 - Windows XP operating system (SSD required)

Hardware:

- Small form factor housing (305x305x64 mm - 12x12x2.5 inch)
Standalone or ISIS rear mountable
- Active Power Factor Correction Power supply - universal AC input
- Processor: Intel® based, low power, small form factor
- 2 GB RAM
- Solid state drive 4 GB USB
(option 2.5" SATA flash drive 16/64 GB)
- PCI-Express graphics with min 256M memory

- 4 port of Gb Ethernet (standard 2 ports copper)
(option 2 ports - copper or fiber)
- 2 video outputs (DVI-I 4M Pixel each)
- Peripheral IO: 6xUSB
- Audio AC'97 - HDA, stereo output
- Power on/off switch / reset button
- Power on/off indicator

Environmental specification highlights:

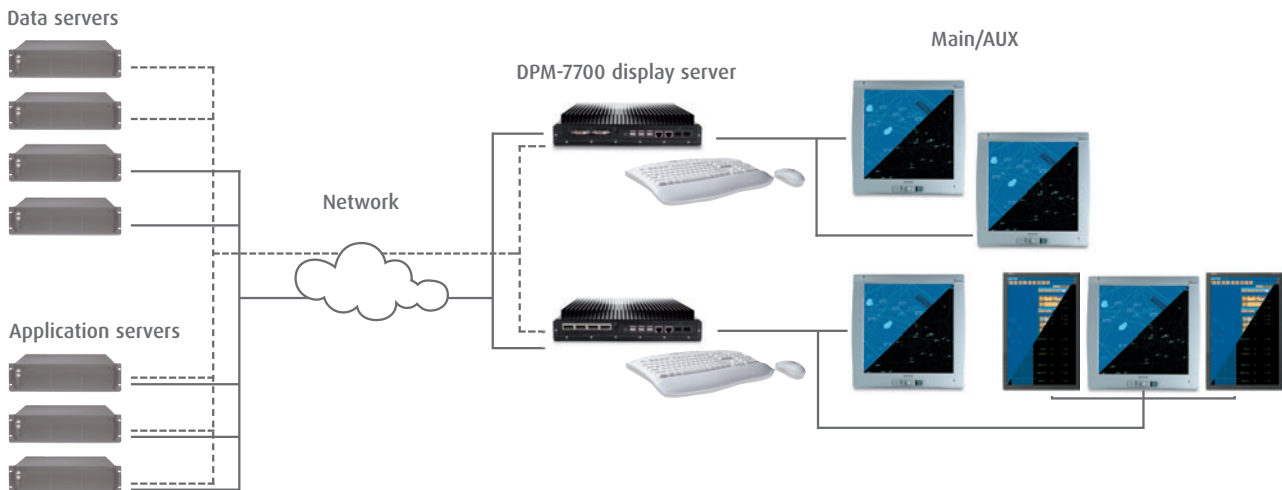
- Operating temperature: +10°C to +40°C
- Storage temperature: -10°C to +60°C
- Relative humidity: 10-80% non-condensing
- Vibration: 0.5g up to 50Hz
- Shock: 15g, 6msec
- EMI/EMC
 - Emission -FCC Class A Volume II part 15 subpart B
 - Emission -EN55022 limit A
 - Immunity -EN50082-1
- Safety: EN60950-1:2001 / CE Mark

Other specification:

- Power consumption 75 Wmax; typical 50W
- Weight <5.5 kg (12.1 lbs)
- Acoustic noise: none (fanless)
- MTBF: > 50,000- hours
- MTTR: < 0.5 hours



DPM-7700 display server concept



M00094-R01-0210-DS

Barco is an ISO 9001 registered company.
Technical specifications are subject to change without prior notice.
The latest version of this product sheet can be found on www.barco.com

Barco nv
Pres. Kennedypark 35, B-8500 Kortrijk
Europe, Middle-East, Africa: +32 56 26 20 09
USA: +1 678 475 8000
Latin America: +55 11 38421656
Japan: +81 3 5762 8727
China: +86 400 88 22726

Or mail to sales.security_and_monitoring@barco.com

